

## 28th June 2013 Battery Free Loop FM Crystal Radio

### **Battery Free Loop FM Radio using an 8-mm diameter copper tube.**

This FM radio runs without battery and you can listen to FM radio by just placing this close to your window.

If reception is not good, you can attach an external FM antenna (or with antenna amplifier), to the Loop at the point  $\frac{1}{3}$  of the loop close to the ground.

Parts you will need:

A Diode that works in high frequency (200Mhz or above, e.g. AA112, 1N34A, 1N48, 1SS86 or 1SS106).

A 0-12 pf AIR Variable capacitor - you can get a 0-22pf one, then remove all the copper plates and leave just 4.

50pf and 180pf fixed ceramic capacitor

100K 1/4W resistor

33uH Choke coil.

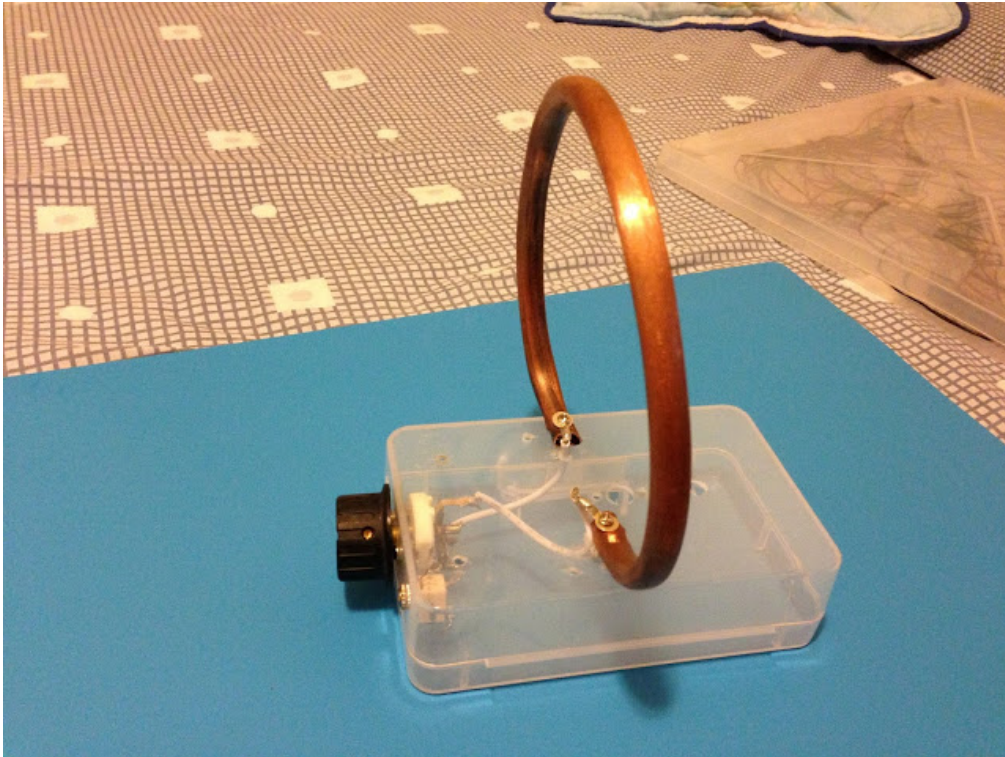
3.5mm mini headphone jack

A high impedance 4K Ohm earphone or a crystal earphone.

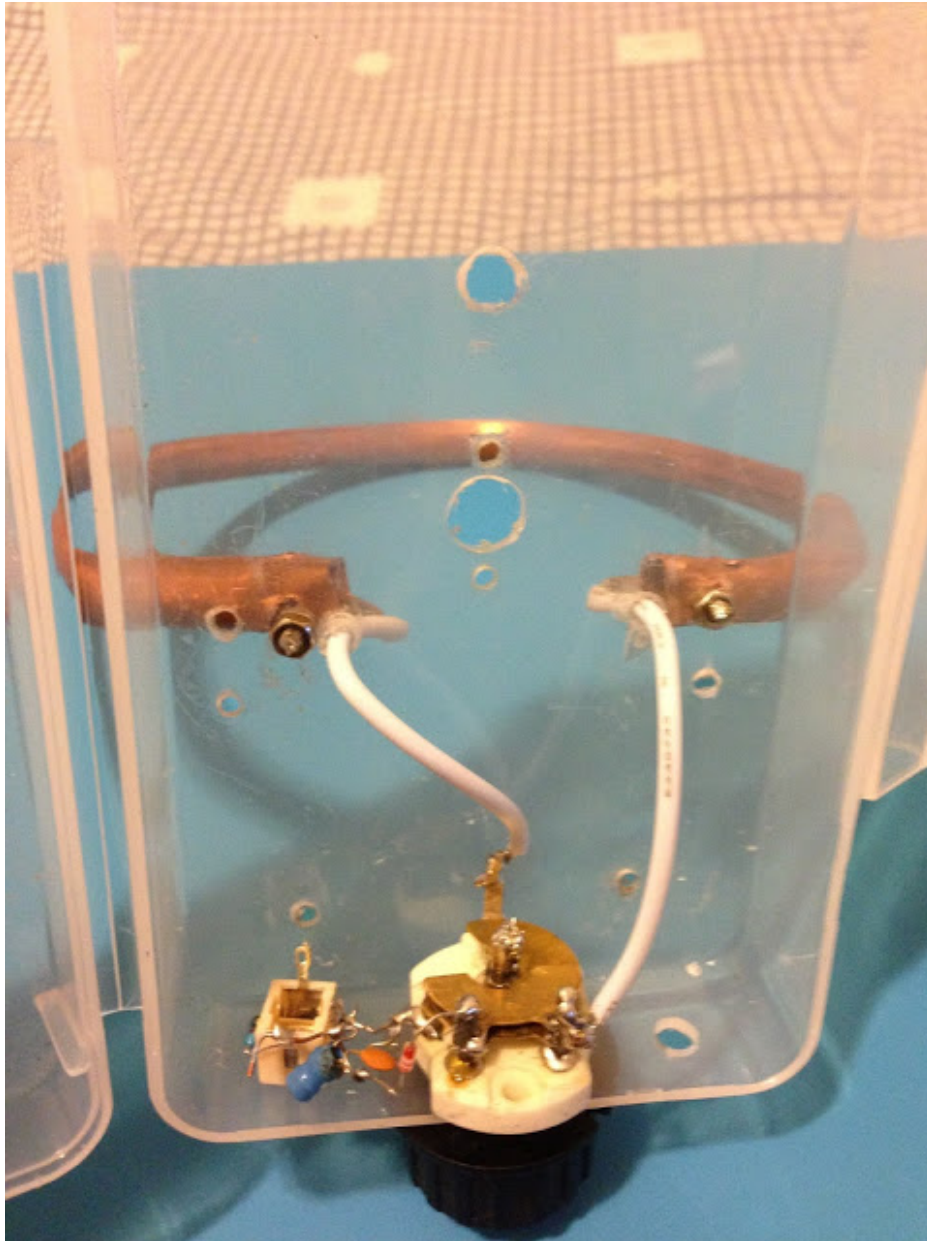
Some wires.



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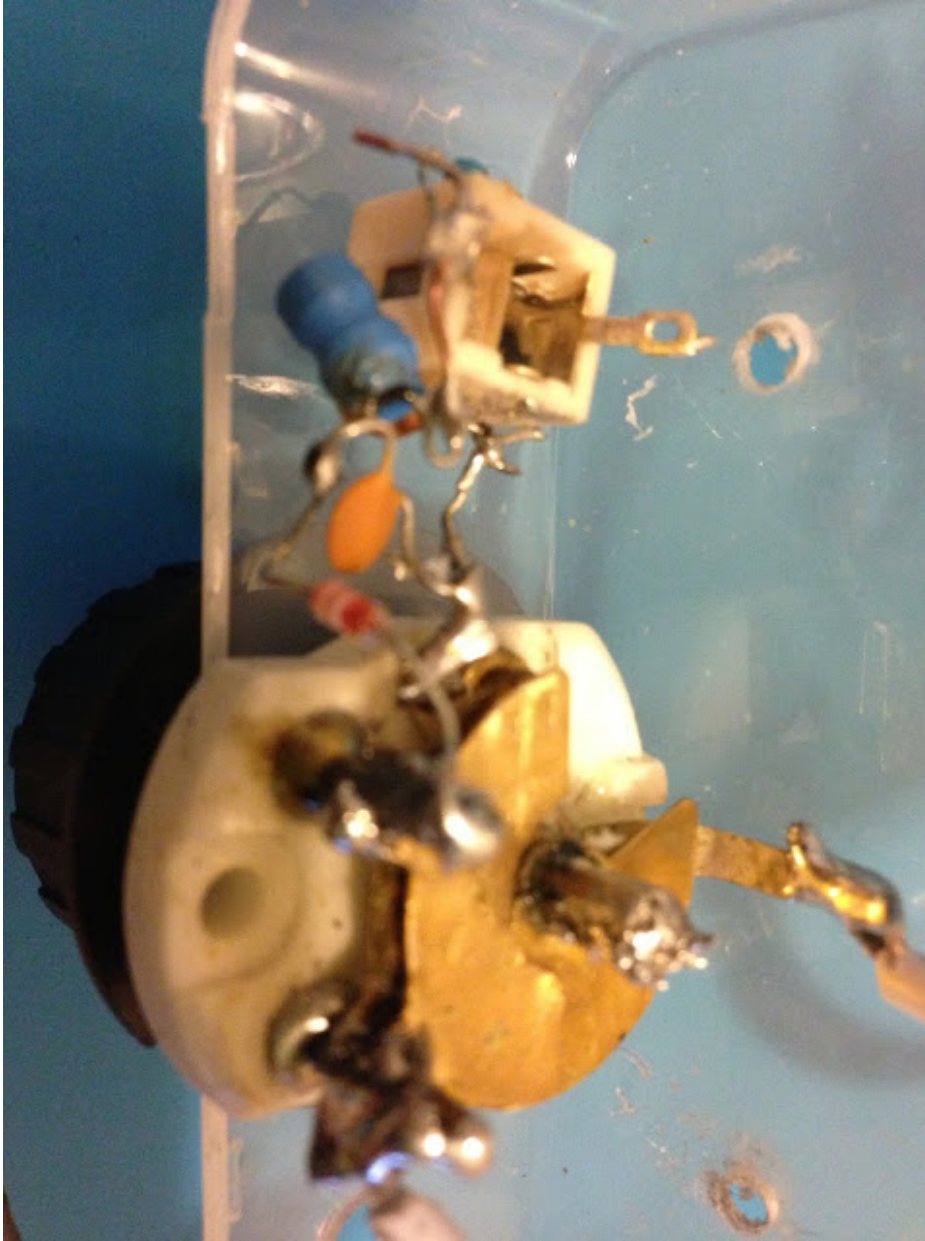


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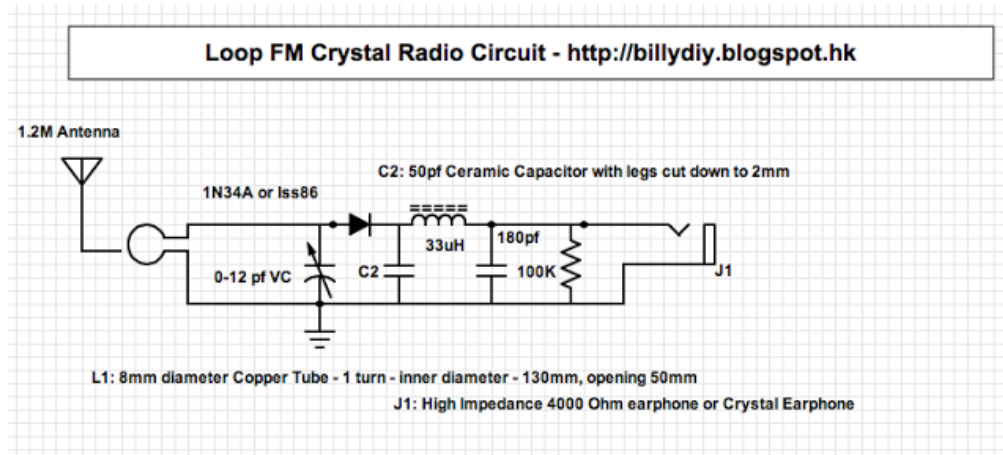


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Posted 28th June 2013 by [Billy](#)

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